

**WEST VIRGINIA
SECRETARY OF STATE
JOE MANCHIN, III
ADMINISTRATIVE LAW DIVISION**

Form #2

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2001 NOV -7 P 2:39

OFFICE WEST VIRGINIA
SECRETARY OF STATE

NOTICE OF A COMMENT PERIOD ON A PROPOSED RULE

AGENCY: WV DEP- Division of Air Quality TITLE NUMBER: 45

RULE TYPE: Interpretive CITE AUTHORITY: W.Va.Code §§22-5-1 et seq; 45CSR10

AMENDMENT TO AN EXISTING RULE: YES NO

IF YES, SERIES NUMBER OF RULE BEING AMENDED: 10A

TITLE OF RULE BEING AMENDED: "Testing, Monitoring, Recordkeeping, and Reporting Requirements Under 45CSR10"

IF NO, SERIES NUMBER OF RULE BEING PROPOSED: _____

TITLE OF RULE BEING PROPOSED: _____

IN LIEU OF A PUBLIC HEARING, A COMMENT PERIOD HAS BEEN ESTABLISHED DURING WHICH ANY INTERESTED PERSON MAY SEND COMMENTS CONCERNING THESE PROPOSED RULES. THIS COMMENT PERIOD WILL END ON December 10, 2001 AT 5:00 p.m. ONLY WRITTEN COMMENTS WILL BE ACCEPTED AND ARE TO BE MAILED TO THE FOLLOWING ADDRESS:

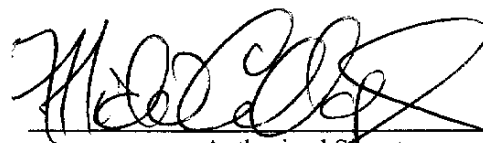
John A. Benedict, Deputy Director

Division of Air Quality

7012 MacCorkle Avenue, SE

Charleston, WV 25304-2943

THE ISSUES TO BE HEARD SHALL BE LIMITED TO THIS PROPOSED RULE.



Authorized Signature

ATTACH A **BRIEF** SUMMARY OF YOUR PROPOSAL

\$5.00

**BUREAU OF ENVIRONMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BRIEFING DOCUMENT

RULE TITLE: 45CSR10A - "Testing, Monitoring, Recordkeeping, and Reporting
Requirements Under 45CSR10"

A. AUTHORITY: W.Va. Code §§22-5-1 et seq. and WV 45CSR10

B. SUMMARY OF RULE:

45CSR10A, "Testing, Monitoring, Recordkeeping, and Reporting Requirements Under 45CSR10," provides guidance on DAQ's testing, monitoring, recordkeeping and reporting requirements for the owner/operators of fuel burning units, manufacturing process sources, and combustion sources subject to 45CSR10. 45CSR10A became effective on March 15, 2001. The proposed rule will amend the current rule to remove the reporting requirements for those sources which combust pipeline quality natural gas, wood or distillate oil. The revisions will also allow a source to use a compliance schedule in its monitoring plan when additional procedures, as well as equipment, are involved. Lastly, the revisions will clarify existing time frames in the interpretive rule and that the monitoring plan for manufacturing process sources must address the "applicable" emission standard under 45CSR§10-4, which includes both a mass-based as well as a concentration-based limit.

C. STATEMENT OF CIRCUMSTANCES WHICH REQUIRE RULE:

45CSR10, "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides," is a legislative rule which establishes weight emission standards for fuel burning units and other standards for manufacturing process sources and combustion sources operated in West Virginia. The legislative rule authorizes the Director to require sources to demonstrate compliance with these standards by testing and monitoring their emissions, keeping records of such testing and monitoring and submitting the results to the Director. 45CSR10 provides the Director will specify the exact manner and frequency of testing, monitoring, recordkeeping and reporting. It is through this interpretive rule that the Director prescribes the specific requirements for testing, monitoring, recordkeeping and reporting which are applicable to a source, depending upon its size and nature.

As the agency has attempted to implement the reporting requirements in the interpretive rule, it has discovered that the rule is overly burdensome with respect to those sources whose only source of sulfur dioxide emissions is the combustion of pipeline quality natural gas, wood or distillate oil. For these sources, the submission of a report detailing emissions is unnecessary, since the agency expects no exceedances from these sources.

The other substantive revision will provide sources additional time to comply with monitoring requirements when new procedures must be implemented.

APPENDIX B

FISCAL NOTE FOR PROPOSED RULES

Rule Title: 45CSR10A - "Testing, Monitoring, Recordkeeping, and Reporting Requirements
Under 45CSR10"

Type of Rule: _____ Legislative Interpretive _____ Procedural

Agency: Division of Air Quality

Address: 7012 MacCorkle Avenue, SE
Charleston, WV 25304

1. Effect of Proposed Rule	Annual		Fiscal Year		
	Increase	Decrease	Current	Next	There-after
Estimated Total Cost	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ -0-
Personal Services	-0-	-0-	-0-	-0-	-0-
Current Expense	-0-	-0-	-0-	-0-	-0-
Repairs and Alterations	-0-	-0-	-0-	-0-	-0-
Equipment	-0-	-0-	-0-	-0-	-0-
Other	-0-	-0-	-0-	-0-	-0-

2. Explanation of above estimates: The revision of 45CSR10A will have minimal effect on the costs to the Division of Air Quality and implementation will be absorbed into the existing work environment. Costs are covered under previous budget estimates.

3. Objectives of these rules: The objective of this rule is to provide guidance and clarification on DAQ's testing, monitoring, recordkeeping and reporting requirements for sources covered by 45CSR10 "To Prevent and Control Air Pollution from the Emissions of Sulfur Oxides," which is part of the West Virginia State Implementation Plan approved by the USEPA for attainment and maintenance of attainment of the National Ambient Air Quality Standards for sulfur oxides. The proposed revisions will remove unnecessary reporting requirements for those sources which burn pipeline quality natural

gas, wood or distillate oil, all relatively "clean" fuels. The revisions also make other minor clarifications and technical corrections.

4. Explanation of Overall Economic Impact of Proposed Rule.

A. Economic Impact on State Government.

See Section 2.

B. Economic Impact on Political Subdivisions; Specific Industries; Specific groups of Citizens.

1. The rule revisions herein will decrease costs associated with reporting requirements for sources burning "clean" fuels.

C. Economic Impact on Citizens/Public at Large.

The proposed rule will have no economic impact on citizens or the public at large.

Date: _____

Signature of Agency Head or Authorized Representative

FILED

TITLE 45
INTERPRETIVE RULE
DEPARTMENT ~~DIVISION~~ OF ENVIRONMENTAL PROTECTION
~~DIVISION~~ OFFICE OF AIR QUALITY

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OFFICE WEST VIRGINIA
SECRETARY OF STATE

SERIES 10A
TESTING, MONITORING, RECORDKEEPING AND REPORTING
REQUIREMENTS UNDER 45CSR10

§45-10A-1. General.

1.1. Scope. -- Series 10A provides guidance and clarification for complying with the testing, monitoring, recordkeeping and reporting requirements of 45CSR10, "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides." This rule is an interpretive rule, not a legislative rule, as those terms are defined under W. Va. Code §29A-1-2.

1.2. Authority. -- W. Va. Code §§22-5-1 et seq. and WV 45CSR10.

1.3. Filing Date. -- ~~February 13, 2001.~~

1.4. Effective Date. -- ~~March 15, 2001.~~

§45-10A-2. Definitions.

2.1. "ASTM Approved" means test methods and procedures approved and published by the American Society for Testing and Materials.

2.2. "Combustion Source" means a source(s) subject to the standards set forth in section 5 of 45CSR10.

2.3. "Continuous Emission Monitoring System" or "CEMS" means all equipment required for the determination of gas concentration or emission rate, installed, calibrated, operated and maintained as specified in 40 CFR Part 75, or 40 CFR Part 60, Appendix B, Performance Specification 2 or Performance Specification 7 and 40 CFR Part 60, Appendix F.

2.4. "Excursion" means: (1) measured emissions exceeding the applicable standards set

forth in sections 3, 4, and 5 of 45CSR10; or (2) operating parameters outside the range set forth in an approved monitoring plan, which may or may not result in measured emissions exceeding the applicable standards set forth in sections 3, 4, and 5 of 45CSR10.

2.5. "Factor," in lbSO₂/mmBTU, means the number, indicated in 45CSR10, subsection 3.1, 3.2, or 3.3, as appropriate, to be multiplied by the TDHI to calculate the maximum amount of sulfur dioxide permitted to be discharged to the atmosphere from all stacks located at one plant, expressed in units of pounds per hour.

2.6. "Fuel Quality Analysis" means the sulfur content and the BTU content.

2.7. "Pipeline Quality Natural Gas" means natural gas with a sulfur content less than or equal to 4.2 grains per 1000 dry standard cubic feet (dscf).

2.8. Other words and phrases used in this rule, unless otherwise indicated, shall have the meaning ascribed to them in WV CSR §45-10-2 or W. Va. Code §22-5-1 et seq.

§45-10A-3. Applicability.

3.1. This rule applies to any fuel burning unit(s), manufacturing process source(s) or combustion source(s) subject to 45CSR10, except as follows:

3.1.a. Fuel burning unit(s) with a design heat input (DHI) of less than 10 million BTU²s per hour (mmBTU/hr);

3.1.b. Fuel burning unit(s) which combust natural gas, wood or distillate oil, alone or in combination; ~~or~~

3.1.c. Manufacturing process source operation(s) which have the potential to emit less than 500 pounds per year of sulfur oxides; ~~or~~

3.1.d. Manufacturing operations in which the process is to partially combust wood during the manufacture of charcoal.

§45-10A-4. Fuel Burning Unit(s) -- Registration of Allowable Emission Rates for Individual Stacks.

4.1. In accordance with subdivision 3.4.a of 45CSR10, the owner or operator of each fuel burning unit(s) shall register an allowable emission rate for each individual stack, in pounds per hour, determined as provided in Appendix B, except where:

4.1.a. The owner or operator of a fuel burning unit utilizes CEMS or daily ASTM method sampling and analysis to demonstrate compliance with the plant-wide emission limit and the provisions of subdivision 3.4.a of 45CSR10; or

4.1.b. The Secretary~~Director~~ has approved a petition for an alternative individual stack allowable emission rate, filed by the owner or operator in accordance with subdivision 3.4.b of 45CSR10.

§45-10A-5. Testing Requirements.

5.1. Fuel Burning Unit(s).

5.1.a. The owner or operator shall conduct or have conducted, weight emission tests to determine the compliance of each fuel burning unit with the weight emission standards set forth in section 3 of 45CSR10 at a frequency established in the following table. Weight emission tests shall be conducted in accordance with 40_CFR Part 60, Appendix A, Method 6 or other equivalent EPA testing method approved by the Secretary~~Director~~. If weight emission testing is required, the initial

weight emission test shall be conducted within a time period starting March 15, 2000~~twelve (12) months prior to~~, and ending March 15, 2002~~twelve (12) months after, the effective date of this rule~~ for existing units and within one hundred eighty (180) days of start-up for new unit(s).

Percent% of Factor	Testing Frequency
≤50% of Factor	No stack testing required
<u>B</u> etween 50% and 90% of Factor	Once every 5 years
≥90% of Factor	Once every year

5.1.b. The owner or operator of a fuel burning unit(s), with a DHI greater than or equal to 10 million BTUs per hour (mmBTU/hr) but less than 100 mmBTU/hr, may petition the Secretary~~Director~~ for an alternative to weight emission testing.

5.1.c. The owner or operator of a fuel burning unit may petition for alternatives to the testing requirements of subsection 5.1 for units that are infrequently used or for infrequently used fuels.

5.2. Manufacturing Process Source(s).

5.2.a. The owner or operator shall conduct or have conducted, compliance tests to determine the compliance of each manufacturing process source with the emission standards set forth in section 4 of 45CSR10. Compliance tests shall be conducted in accordance with 40_CFR Part 60, Appendix A, Method 6 or other equivalent EPA testing method approved by the Secretary~~Director~~. The initial compliance test shall be conducted within a time period starting March 15, 2000~~twelve (12) months prior to~~, and ending March 15, 2002~~twelve (12) months after, the effective date of this rule~~ for existing units and within one hundred eighty (180) days of start-up for new unit(s). The results of the initial test shall be a consideration in establishing a compliance

testing frequency. Compliance tests shall be conducted at a frequency established in the approved monitoring plan.

5.2.b. Manufacturing process source(s) utilizing a flare as a control device shall be exempt from the compliance testing requirements of subdivision 5.2.a.

5.2.c. The owner or operator of a manufacturing process source(s) may for good cause petition the Secretary~~Director~~ for an alternative to compliance testing, which may include, but not be limited to, process gas sampling for percent sulfur by weight. To determine the emission rate of sulfur dioxide the manufacturing process source(s) shall assume 100% conversion to sulfur dioxide of all unrecovered sulfur compounds.

5.3. Combustion Source(s). ~~5.3.a.~~ The owner or operator shall conduct or have conducted, compliance tests to determine the compliance of each combustion source with the standards set forth in section 5 of 45CSR10. Compliance tests shall be conducted in accordance with 40 CFR Part 60, Appendix A, Method 15 or other equivalent EPA testing method approved by the Secretary~~Director~~. The initial compliance test shall be conducted within a time period starting March 15, 2000~~twelve (12) months prior to,~~ and ending March 15, 2002~~twelve (12) months after,~~ ~~the effective date of this rule~~ for existing units and within one hundred eighty (180) days of start-up for new unit(s). The results of the initial test shall be a consideration in establishing a compliance testing frequency. Compliance tests shall be conducted at a frequency established in the approved monitoring plan.

5.4. The owner or operator of a fuel burning unit(s), manufacturing process unit(s), or combustion unit(s) employing CEMS to meet the requirements of section 6 shall be exempt from the testing requirements of subsections 5.1, 5.2 and 5.3.

5.5. The Secretary~~Director~~ reserves the right to require testing pursuant to subsection 8.1 of

45CSR10.

§45-10A-6. Monitoring Plan Requirements.

6.1. Fuel Burning Unit(s).

6.1.a. The owner or operator of a fuel burning unit(s) shall submit, to the Secretary~~Director~~ for approval, a monitoring plan for each fuel burning unit(s) that describes the method the owner or operator will use to monitor compliance with the weight emission standard set forth in section 3 of 45CSR10. The owner or operator of a fuel burning unit(s) may use CEMS, which shall be deemed to satisfy all of the requirements of an approved monitoring plan, or a monitoring plan as specified in subsection 6.4, in accordance with the provisions of this section.

6.1.b. The owner or operator of a type 'a' fuel burning unit(s) shall use a CEMS to satisfy the requirements of an approved monitoring plan.

6.1.b.1. CEMS conforming to the specifications of 40 CFR Part 75 shall use unbiased, unsubstituted data to demonstrate compliance with the provisions of 45CSR10.

6.1.c. The owner or operator of a type 'b' or type 'c' fuel burning unit(s) which burns fuel with a sulfur content that equates to 90% or greater of the factor shall:

6.1.c.1. Use a CEMS to satisfy the requirements of an approved monitoring plan; or

6.1.c.2. Conduct daily "as burned" fuel analysis in accordance with applicable ASTM procedures and test methods.

6.1.~~c.3.~~ CEMS, if required, shall be installed, operational and certified within twelve (12) months of the date of monitoring plan approval or within twelve (12) months of triggering the 90% threshold, whichever is later.

6.1.~~c.4.~~ CEMS shall be used to satisfy the requirements of an approved monitoring plan if any other rule, permit or order requires the use of

CEMS for the fuel burning unit(s). If not yet installed, the CEMS shall be installed by the date required in the other rule, permit or order.

6.2. Manufacturing Process Source(s)

6.2.a. The owner or operator of a manufacturing process source(s) shall submit, to the Secretary~~Director~~ for approval, a monitoring plan for each manufacturing process source(s) that describes the method the owner or operator will use to monitor compliance with the ~~mass~~applicable emission standard set forth in section 4 of 45CSR10. The owner or operator of a manufacturing process source(s) may use CEMS, which shall be deemed to satisfy all of the requirements of an approved monitoring plan, or a monitoring plan as specified in subsection 6.4, in accordance with the provisions of this section.

6.2.b. The owner or operator of a manufacturing process source(s) with a potential to emit 100 tons per year (tpy) of sulfur dioxide and with the potential to emit sulfur dioxide at a rate greater than or equal to 90% of the applicable emission standard shall use CEMS to satisfy the requirements of an approved monitoring plan.

6.2.b.1. The owner or operator of a manufacturing process source(s) may for good cause petition the Secretary~~Director~~ for an alternative to CEMS.

6.2.b.2. CEMS, if required, shall be installed, operational and certified within twelve (12) months of the date of monitoring plan approval, within twelve (12) months of the receipt of denial of a petition under paragraph 6.2.b.1 or within twelve (12) months of triggering the 100 tpy and 90% thresholds in subdivision 6.2.b, whichever is later.

6.2.c. CEMS shall be used to satisfy the requirements of an approved monitoring plan if any other rule, permit or order requires the use of CEMS for the manufacturing process source(s). If not yet installed, the CEMS shall be installed by the date required in the other rule, permit or order.

6.3. Combustion Source(s)

6.3.a. The owner or operator of a combustion source(s) shall submit, to the Secretary~~Director~~ for approval, a monitoring plan for each combustion source(s) that describes the method the owner or operator will use to monitor compliance with the standard set forth in section 5 of 45CSR10. The owner or operator of a combustion source(s) may use CEMS, which shall be deemed to satisfy all of the requirements of an approved monitoring plan, or a monitoring plan as specified in subsection 6.4, in accordance with the provisions of this section.

6.3.b. The owner or operator of a combustion source(s) which has a refinery process gas stream or any other process gas stream that contains an average hydrogen sulfide concentration greater than or equal to 45 grains per 100 cubic feet shall use CEMS to satisfy the requirements of an approved monitoring plan.

6.3.b.1. The owner or operator of a combustion source(s) may for good cause petition the Secretary~~Director~~ for an alternative to CEMS.

6.3.b.2. CEMS, if required, shall be installed, operational and certified within twelve (12) months of the date of monitoring plan approval, within twelve (12) months of the receipt of denial of a petition under paragraph 6.3.b.1 or within twelve (12) months of triggering the 45 grains per 100 cubic feet threshold in subdivision 6.3.b, whichever is later.

6.3.c. CEMS shall be used to satisfy the requirements of an approved monitoring plan if any other rule, permit or order requires the use of CEMS for the combustion source(s). If not yet installed, the CEMS shall be installed by the date required in the other rule, permit or order.

6.4. An approved monitoring plan shall contain, at a minimum, the following ~~items~~:

6.4.a. ~~A~~ list of parameters to be monitored;

6.4.b. ~~T~~he monitoring method and

frequency for each parameter to be monitored;

6.4.c. The compliance range for each parameter to be monitored;

6.4.d. An explanation of how the parameters to be monitored were chosen, and how they are indicative of compliance;

6.4.e. An explanation of how the compliance ranges were established;

6.4.f. A schedule for installation and operation of any additional monitoring equipment installed for purposes of complying with this rule, or a schedule for implementation of any additional procedure(s) required for purposes of complying with this rule;

6.4.g. A response plan to be implemented during excursions; and

6.4.h. A proposed compliance testing schedule for manufacturing process source(s) and combustion source(s), as applicable.

6.5. Monitoring plans, pursuant to subdivisions 6.1.a, 6.2.a, and 6.3.a, shall be submitted to the SecretaryDirector for approval no later than February 28, 2001, as specified in paragraph 8.2.c.2 of 45CSR10.

6.5.a. Approval or denial of such plans shall be issued no later than August 31, 2001, or 6 months after submittal, whichever is later, as specified in paragraph 8.2.c.2 of 45CSR10, provided that the owner or operator may presume approval of a monitoring plan if the SecretaryDirector has neither approved nor denied the plan by the date specified in this subdivision.

6.5.b. Monitoring plans shall become effective upon approval.

6.6. In addition to other actions taken by the SecretaryDirector, the SecretaryDirector may require the monitoring plan to be revised when the SecretaryDirector has reason to believe that the ranges established for operating parameters in the

monitoring plan are no longer indicative of compliance or when the SecretaryDirector has reason to believe that excursions are excessive.

6.7. Notwithstanding any other provisions of this rule, the SecretaryDirector reserves the right to require the installation of CEMS pursuant to subdivision 8.2.a of 45CSR10, in any case where the SecretaryDirector deems it necessary to determine compliance with the standards in 45CSR10.

§45-10A-7. Recordkeeping and Reporting Requirements.

7.1. Recordkeeping.

7.1.a. Fuel Burning Units. -- The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule and the quality and quantity of fuel burned in each unit. Such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis, and a periodic fuel quality analysis as set forth in the following table:

Fuel Quality	Frequency of Analysis
≥90% of Factor	Daily
< 90% of Factor	per shipment

7.1.a.1. The owner or operator shall provide in the monitoring plan a quality control and quality assurance program for the fuel analysis. If a certified independent lab is used to provide the fuel analysis, the quality control and assurance program is deemed to be satisfactory.

7.1.b. Combustion source(s). -- The owner or operator of a combustion source(s) shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each unit. Such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis, and a periodic fuel quality analysis. The frequency of

periodic fuel quality analysis shall be established in an approved monitoring plan.

7.1.c. The owner or operator of a fuel burning unit or combustion source which utilizes CEMS shall be exempt from the provisions of subdivision 7.1.a or 7.1.b, respectively as applicable.

7.1.d. For fuel burning units, manufacturing process sources, and combustion sources, records of all required monitoring data as established in an approved monitoring plan and support information shall be maintained on-site for a period of at least five (5) years from the date of monitoring, sampling, measurement or reporting. Support information includes all calibration and maintenance records and all strip chart recordings for continuous monitoring instrumentation, and copies of all required reports.

7.2. Exception Reporting.

7.2.a. CEMS. -- Each owner or operator employing CEMS for an approved monitoring plan, shall submit a "CEMS Summary Report" and/or a "CEMS Excursion and Monitoring System Performance Report" to the Secretary~~Director~~ quarterly; the Secretary~~Director~~ may, on a case-by-case basis, require more frequent reporting if the Secretary~~Director~~ deems it necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter. The CEMS Summary Report shall contain the information and be in the format shown in Appendix A unless otherwise specified by the Secretary~~Director~~.

7.2.a.1. Submittal of 40 CFR Part 75 data in electronic data reporting (EDR) format to the Secretary~~Director~~ shall be deemed to satisfy the requirements of subdivision 7.2.a.

7.2.a.2. If the total duration of excursions for the reporting period is less than four percent (4%) of the total source operating time for the reporting period and the total monitoring method downtime for the reporting period is less than five

percent (5%) of the total source operating time for the reporting period, only the CEMS Summary Report shall be submitted; the CEMS Excursion and Monitoring System Performance report shall be maintained on-site and shall be submitted to the Secretary~~Director~~ upon request.

7.2.a.3. If the total duration of excursions for the reporting period is four percent (4%) or greater of the total operating time for the reporting period or the total monitoring method downtime for the reporting period is five percent (5%) or greater of the total operating time for the reporting period, the CEMS Summary Report and the CEMS Excursion and Monitoring System Performance Report shall both be submitted to the Secretary~~Director~~.

7.2.a.4. The CEMS Excursion and Monitoring System Performance Report shall be in a format approved by the Secretary~~Director~~ and shall include the following information:

7.2.a.4.A. The magnitude of each excursion, and the date and time, including starting and ending times, of each excursion;

7.2.a.4.B. Specific identification of each excursion that occurs during start-ups, shutdowns, and malfunctions of the facility;

7.2.a.4.C. The nature and cause of any malfunction (if known), and the corrective action taken and preventative measures adopted;

7.2.a.4.D. The date and time identifying each period during which quality-controlled monitoring data was unavailable, except for zero and span checks, and the reason for data unavailability and the nature of the repairs or adjustments to the monitoring system; and

7.2.a.4.E. When no excursions have occurred or there were no periods of quality-controlled data unavailability, and no monitoring systems were inoperative, repaired, or adjusted, such information shall be stated in the report.

7.2.b. Non-CEMS Based Monitoring. --

Each owner or operator employing monitoring pursuant to subsection 6.4 shall submit a "Monitoring Summary Report" and an "Excursion and Monitoring Plan Performance Report" to the SecretaryDirector on a quarterly basis, to the extent required under paragraphs 7.2.b.1 through 7.2.b.4; the SecretaryDirector may, on a case-by-case basis, require more frequent reporting if the SecretaryDirector deems it necessary to accurately assess the compliance status of the fuel burning unit(s). All reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter. The Monitoring Summary Report shall contain the information and be in a format approved by the SecretaryDirector.

7.2.b.1. If the total number of excursions for the reporting period is less than four percent (4%) of the total number of readings for the reporting period and the number of readings missing for the reporting period is less than five percent (5%) of the total number of readings agreed upon in the monitoring plan for the reporting period, the Monitoring Summary Report shall be submitted to the SecretaryDirector; the Excursion and Monitoring Plan Performance Report shall be maintained on-site and shall be submitted to the SecretaryDirector upon request.

7.2.b.2. If the number of excursions for the reporting period is four percent (4%) or greater of the total number of readings for the reporting period or the number of readings missing for the reporting period is five percent (5%) or greater of the total number of readings agreed upon in the monitoring plan for the reporting period, the Monitoring Summary Report and the Excursion and Monitoring Plan Performance Report shall both be submitted to the SecretaryDirector.

7.2.b.3. The Excursion and Monitoring Plan Performance Report shall be in the format specified in an approved monitoring plan and shall include, but not be limited to, the following information:

7.2.b.3.A. The magnitude of each excursion, and the date and time, including starting and ending times, of each excursion;

7.2.b.3.B. Specific identification of each excursion that occurs during start-ups, shutdowns, and malfunctions of the facility;

7.2.b.3.C. The nature and cause of any excursion (if known), and the corrective action taken and preventative measures adopted (if any);

7.2.b.3.D. The date and time identifying each period during when data is unavailable, and the reason for data unavailability and the corrective action taken; and

7.2.b.3.E. When no excursions have occurred or there were no periods of data unavailability, such information shall be stated in the report.

7.2.b.4. The Monitoring Summary Report and the Excursion and Monitoring Plan Performance Report described in subdivision 7.2.b shall not be required for any manufacturing process source or combustion source where the only source of sulfur dioxide emissions results from the combustion of pipeline quality natural gas, wood or distillate oil, alone or in combination.

Appendix A - CEMS Summary Report

Pollutant **SO₂**

Company _____

Emission Limitation _____

Regulation	Limit	Units	Period
45 CSR 10			

Total Source Operating Time _____ minutes

Reporting Period: Calendar Quarter _____ to _____

Monitor Manufacturer: _____

Model Number: _____

Date of Last Certification or Audit: _____

Process Unit(s) Description: _____

Emissions Data Summary

1. Duration of excess emissions in reporting period due to:

- a. Startup/Shutdown _____ hours
- b. Malfunctions due to Control Equipment Problems _____ hours
- c. Malfunctions due to Process Problems _____ hours
- d. Other Known Causes _____ hours
- e. Unknown Causes _____ hours

2. Total Duration _____ hours

3. Percent Excess Emissions _____ %

% Excess Emissions = 100 * (Total Duration / Total source Operating Time)

CEMS Performance Summary

1. CEMS Downtime in reporting period due to:

- a. Monitor Equipment Malfunction _____ hours
- b. Other Equipment Malfunction _____ hours
- c. Quality Assurance Calibration _____ hours
- d. Other Known Causes _____ hours
- e. Unknown Causes _____ hours

2. Total CEMS Downtime _____ hours

3. Percent CEMS Downtime _____ %

% Downtime = 100 * (Total CEMS Downtime / Total Source Operating Time)

Please Note:

1. Separate Summary Reports are required for each process in the system when it has separate monitoring equipment.
2. Total source operating time means the total time which the affected source is operating, including all periods of start-up, shut-down, malfunction, or CEMS downtime as those times are defined under the rule.
3. All times for SO₂ emissions are to be reported in hours.
4. On a separate page describe any changes since the last reporting period to the CEMS process or controls.
5. Other reports may be necessary to meet requirements.

Appendix B -Registration

Table 1 - Sum of Design Heat Inputs for Similar Units					
Type 'a'		Type 'b'		Type 'c'	
(A) Unit ID	(B) DHI (mmBTU)	(C) Unit ID	(D) DHI (mmBTU)	(E) Unit ID	(F) DHI (mmBTU)
Sum of DHI for all Type 'a' units		Sum of DHI for all Type 'b' units		Sum of DHI for all Type 'c' units	

Table 2 - Weight Emission Limits for Similar Units			
(A)	(B) Total Design Heat Input (mmBTU)	(C) Factor from 45CSR10, Section 3 (lb/mmBTU)	(D) Weight Emission Rate (lb/hr) ^{1,2} [B * C = D]
Sum of DHI for all Type 'a' units			
Sum of DHI for all Type 'b' units			
Sum of DHI for all Type 'c' units			

Table 3 - Registration of Standard Individual Stack Emission Rates					
(A) Stack ID	(B) Identify each unit venting thru stack	(C) Sum of DHI for all units venting thru stack (mmBTU)	(D) Sum of DHI for all Similar Units (Table 2, Column B) (mmBTU)	(E) Wt. Emission Rate for all Similar Units (Table 2, Column D) (mmBTU)	(F) Stack Emission Rate (lb/hr) [(C/D) * E = F]
Sum of Standard Stack Allowable Emission Rates (lb/hr)					

The owner or operator may register individual stack allowable emission rates, differing from those calculated above, as provided for in 45CSR10, Subsection 3.4.

Table 4 - Registration of Alternative Stack Emission Rates		
(A) Stack ID	(B) Identify each unit venting thru stack	(C) Alternative Stack Emission Rate (lb/hr)
Sum of Alternative Stack Emission Rates (lb/hr)¹		

¹ The sum of the Alternative stack emission rates for similar units shall not exceed the weight emission rates for similar units in Table 2, Column D.